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(54) OLIGOPEPTIDE MIXTURE AND ITS PRODUCTION

(57)Abstract:

PURPOSE: To obtain an oligopeptide mixture rich in both highly digestible peptides and glutamine by hydrolyzing wheat protein under specified conditions with an alkali protease produced by Bacillus bacteria.

CONSTITUTION: The oligopeptide mixture can be obtained by hydrolyzing wheat protein with an alkali protease at pH8.0-11.0 (pref. 9.0-10.0) at 40-70 (pref. 50-60)°C for 5-30 (pref. 10-20) hr. This mixture has the following characteristics: (1) weight-average molecular weight: 200-1000; (2) total content of dipeptide plus tripeptide: ≥50wt.%; (3) free amino acid content: ≤10wt.%; and (4) glutamine content: ≥30wt.%.

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